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Sequence Listing was accepted.

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Reviewer: Durreshwar Anjum

Timestamp: [year=2009; month=10; day=20; hr=13; min=50; sec=35; ms=100;
]

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Application No: 10579393 Version No: 2.0

Input Set:

Output Set:

Started: 2009-10-02 16:11:39.564
Finished: 2009-10-02 16:11:42.001
Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 437 ms
Total Warnings: 26
Total Errors: 0
No. of SeqIDs Defined: 33
Actual SeqID Count: 33

Error code	Error Description
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W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
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W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)
W 213	Artificial or Unknown found in <213> in SEQ ID (21)
W 213	Artificial or Unknown found in <213> in SEQ ID (22)

Input Set:

Output Set:

Started: 2009-10-02 16:11:39.564
Finished: 2009-10-02 16:11:42.001
Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 437 ms
Total Warnings: 26
Total Errors: 0
No. of SeqIDs Defined: 33
Actual SeqID Count: 33

Error code	Error Description
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SEQUENCE LISTING

<110> NORLUND, HENRI RAINER
LAITINEN, OLLI HEIKKI
HYTONEN, VESA PEKKA
KULOMAA, MARKKU SAKARI

<120> AVIDIN MUTANTS

<130> 3516-1010

<140> 10579393
<141> 2009-10-02

<150> PCT/FI04/000679
<151> 2004-11-15

<150> FI 20031663
<151> 2003-11-14

<160> 33

<170> PatentIn Ver. 3.3

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<213> Gallus gallus

<400> 1

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35 40 45

Ser Arg Gly Glu Phe Thr Gly Thr Tyr Ile Thr Ala Val Thr Ala Thr
50 55 60

Ser Asn Glu Ile Lys Glu Ser Pro Leu His Gly Thr Gln Asn Thr Ile
65 70 75 80

Asn Lys Arg Thr Gln Pro Thr Phe Gly Phe Thr Val Asn Trp Lys Phe
85 90 95

Ser Glu Ser Thr Thr Val Phe Thr Gly Gln Cys Phe Ile Asp Arg Asn
100 105 110

Gly Lys Glu Val Leu Lys Thr Met Trp Leu Leu Arg Ser Ser Val Asn
115 120 125

Asp Ile Gly Asp Asp Trp Lys Ala Thr Arg Val Gly Ile Asn Ile Phe
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Thr Arg Leu Arg Thr Gln Lys Glu
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<213> Gallus gallus

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20 25 30

Phe Gly Phe Thr Val Asn Trp Lys Phe Ser Glu Ser Thr Thr Val Phe
35 40 45

Thr Gly Gln Cys Phe Ile Asp Arg Asn Gly Lys Glu Val Leu Lys Thr
50 55 60

Met Trp Leu Leu Arg Ser Ser Val Asn Asp Ile Gly Asp Asp Trp Lys
65 70 75 80

Ala Thr Arg Val Gly Ile Asn Ile Phe Thr Arg Leu Arg Thr Gln Lys
85 90 95

Glu Gly Ser Gly Ser Ala Arg Lys Cys Ser Leu Thr Gly Lys
100 105 110

Trp Thr Asn Asp Leu Gly Ser Asn Met Thr Ile Gly Ala Val Asn Ser
115 120 125

Arg Gly Glu Phe Thr Gly Thr Tyr Ile Thr Ala Val Thr Ala Thr Ser
130 135 140

Asn Glu Ile Lys Glu Ser Pro Leu His Gly Thr Gln Asn Thr Ile Asn
145 150 155 160

Lys Ser Gly Gly Ser Thr Thr Val Phe Thr Gly Gln Cys Phe Ile Asp
165 170 175

Arg Asn Gly Lys Glu Val Leu Lys Thr Met Trp Leu Leu Arg Ser Ser
180 185 190

Val Asn Asp Ile Gly Asp Asp Trp Lys Ala Thr Arg Val Gly Ile Asn
195 200 205

Ile Phe Thr Arg Leu Arg Thr Gln Lys Glu Gly Ser Gly Gly Ser
210 215 220

Ala Arg Lys Cys Ser Leu Thr Gly Lys Trp Thr Asn Asp Leu Gly Ser
225 230 235 240

Asn Met Thr Ile Gly Ala Val Asn Ser Arg Gly Glu Phe Thr Gly Thr

245 250 255

Tyr Ile Thr Ala Val Thr Ala Thr Ser Asn Glu Ile Lys Glu Ser Pro
260 265 270

Leu His Gly Thr Gln Asn Thr Ile Asn Lys Arg Thr Gln Pro Thr Phe
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Gly Phe Thr Val Asn Trp Lys Phe Ser Glu
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<210> 3

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
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<210> 4

<211> 31

<212> DNA

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<223> Description of Artificial Sequence: Synthetic
primer

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<210> 5

<211> 19

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
primer

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<211> 20

<212> DNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
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<210> 7
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<213> Artificial Sequence

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<220>
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primer

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<212> DNA
<213> Artificial Sequence

<220>
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<210> 10
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<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

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21

<210> 11
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

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agacaaaagct tcactctgaa aacttccaaat tg

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<210> 12
<211> 38
<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic primer

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<211> 29
<212> DNA
<213> Artificial Sequence

<220>
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29

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<213> Artificial Sequence

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20

<210> 15
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20

<210> 16
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oligonucleotide

<400> 16
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oligonucleotide

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<210> 18
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<220>
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primer

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18

<210> 19
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
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primer

<400> 19

gacagtggta gatccgcc

18

<210> 20

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

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primer

<400> 20

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29

<210> 21

<211> 40

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
primer

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<210> 22

<211> 46

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 22

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46

<210> 23

<211> 20

<212> DNA

<213> Artificial Sequence

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primer

<400> 23

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<210> 24
<211> 581
<212> PRT
<213> Gallus gallus

<400> 24

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1							5						10		15

Ala Leu Val Ala Pro Gly Leu Ser Ala Arg Lys Arg Thr Gln Pro Thr

	20				25				30						
--	----	--	--	--	----	--	--	--	----	--	--	--	--	--	--

Phe Gly Phe Thr Val Asn Trp Lys Phe Ser Glu Ser Thr Thr Val Phe

		35			40				45						
--	--	----	--	--	----	--	--	--	----	--	--	--	--	--	--

Thr Gly Gln Cys Phe Ile Asp Arg Asn Gly Lys Glu Val Leu Lys Thr

		50			55				60						
--	--	----	--	--	----	--	--	--	----	--	--	--	--	--	--

Met Trp Leu Leu Arg Ser Ser Val Asn Asp Ile Gly Asp Asp Trp Lys

		65			70				75				80		
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Ala Thr Arg Val Gly Ile Asn Ile Phe Thr Arg Leu Arg Thr Gln Lys

		85			90				95						
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Glu Gly Gly Ser Gly Gly Ser Ala Arg Lys Cys Ser Leu Thr Gly Lys

		100			105				110						
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Trp Thr Asn Asp Leu Gly Ser Asn Met Thr Ile Gly Ala Val Asn Ser

		115			120				125						
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Arg Gly Glu Phe Thr Gly Thr Tyr Ile Thr Ala Val Thr Ala Thr Ser

		130			135				140						
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Asn Glu Ile Lys Glu Ser Pro Leu His Gly Thr Gln Asn Thr Ile Asn

		145			150				155				160		
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Lys Ser Gly Gly Ser Thr Thr Val Phe Thr Gly Gln Cys Phe Ile Asp

		165			170				175						
--	--	-----	--	--	-----	--	--	--	-----	--	--	--	--	--	--

Arg Asn Gly Lys Glu Val Leu Lys Thr Met Trp Leu Leu Arg Ser Ser

		180			185				190						
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Val Asn Asp Ile Gly Asp Asp Trp Lys Ala Thr Arg Val Gly Ile Asn

		195			200				205						
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Ile Phe Thr Arg Leu Arg Thr Gln Lys Glu Gly Gly Ser Gly Gly Ser

		210			215				220						
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Ala Arg Lys Cys Ser Leu Thr Gly Lys Trp Thr Asn Asp Leu Gly Ser

		225			230				235				240		
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Asn Met Thr Ile Gly Ala Val Asn Ser Arg Gly Glu Phe Thr Gly Thr

		245			250				255						
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Tyr Ile Thr Ala Val Thr Ala Thr Ser Asn Glu Ile Lys Glu Ser Pro

		260			265				270						
--	--	-----	--	--	-----	--	--	--	-----	--	--	--	--	--	--

Leu His Gly Thr Gln Asn Thr Ile Asn Lys Arg Thr Gln Pro Thr Phe
275 280 285

Gly Phe Thr Val Asn Trp Lys Phe Ser Glu Gly Gly Ser Gly Ser Gly
290 295 300

Ser Gly Ser Gly Ser Gly Arg Thr Gln Pro Thr Phe Gly Phe Thr Val
305 310 315 320

Asn Trp Lys Phe Ser Glu Ser Thr Thr Val Phe Thr Gly Gln Cys Phe
325 330 335

Ile Asp Arg Asn Gly Lys Glu Val Leu Lys Thr Met Trp Leu Leu Arg
340 345 350

Ser Ser Val Asn Asp Ile Gly Asp Asp Trp Lys Ala Thr Arg Val Gly
355 360 365

Ile Asn Ile Phe Thr Arg Leu Arg Thr Gln Lys Glu Gly Gly Ser Gly
370 375 380

Gly Ser Ala Arg Lys Cys Ser Leu Thr Gly Lys Trp Thr Asn Asp Leu
385 390 395 400

Gly Ser Asn Met Thr Ile Gly Ala Val Asn Ser Arg Gly Glu Phe Thr
405 410 415

Gly Thr Tyr Ile Thr Ala Val Thr Ser Asn Glu Ile Lys Glu
420 425 430

Ser Pro Leu His Gly Thr Gln Asn Thr Ile Asn Lys Ser Gly Gly Ser
435 440 445

Thr Thr Val Phe Thr Gly Gln Cys Phe Ile Asp Arg Asn Gly Lys Glu
450 455 460

Val Leu Lys Thr Met Trp Leu Leu Arg Ser Ser Val Asn Asp Ile Gly
465 470 475 480

Asp Asp Trp Lys Ala Thr Arg Val Gly Ile Asn Ile Phe Thr Arg Leu
485 490 495

Arg Thr Gln Lys Glu Gly Gly Ser Gly Ser Ala Arg Lys Cys Ser
500 505 510

Leu Thr Gly Lys Trp Thr Asn Asp Leu Gly Ser Asn Met Thr Ile Gly
515 520 525

Ala Val Asn Ser Arg Gly Glu Phe Thr Gly Thr Tyr Ile Thr Ala Val
530 535 540

Thr Ala Thr Ser Asn Glu Ile Lys Glu Ser Pro Leu His Gly Thr Gln
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Trp Lys Phe Ser Glu

580

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<211> 1746

<212> DNA

<213> Gallus gallus

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ttttcagagt ccaccactgt cttcacgggc cagtgcctca tagacaggaa tgggaaggag 180
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acagccacat caaatgagat caaagagtca ccactgcgt ggacacaaaa caccatcaac 480
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gtaacagcca catcaaatga gatcaaagag tcaccactgc atggacaca aaacaccatc 840
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atcacagccc taacagccac atcaaatgag atcaaagat caccactgca tgggacacaa 1680
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<211> 897

<212> DNA

<213> Gallus gallus

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gtcctgaaga ccatgtggct gtcgcgtca agtgttaatg acattggta tgactggaaa 240
gctaccaggg tcggcatcaa catcttcaact cgcctgcgc cacagaagga gggaggctcc 300
ggaggctccg ccagaaagtgc ctcgcgtact gggaaatggc ccaacgatct gggctccaac 360
atgaccatcg gggctgtgaa cagcagaggt gaattcacag gcacccatcacagccgt 420
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aagtccggcg gatccaccac tgtcttcacg ggccagtgtc tcatagacag gaatgggaag 540
gagggtcctga agaccatgtg gctgctgcgg tcaagtgtta atgacattgg tgatgactgg 600
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tccggaggct cgcggcggaaa gtgcgtcgctg actgggaaat ggaccaacga tctgggctcc 720
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gtaacagcca catcaaatga gatcaaagag tcaccactgc atgggacaca aaacaccatc 840
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<212> DNA
<213> Artificial Sequence

<220>
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primer

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